

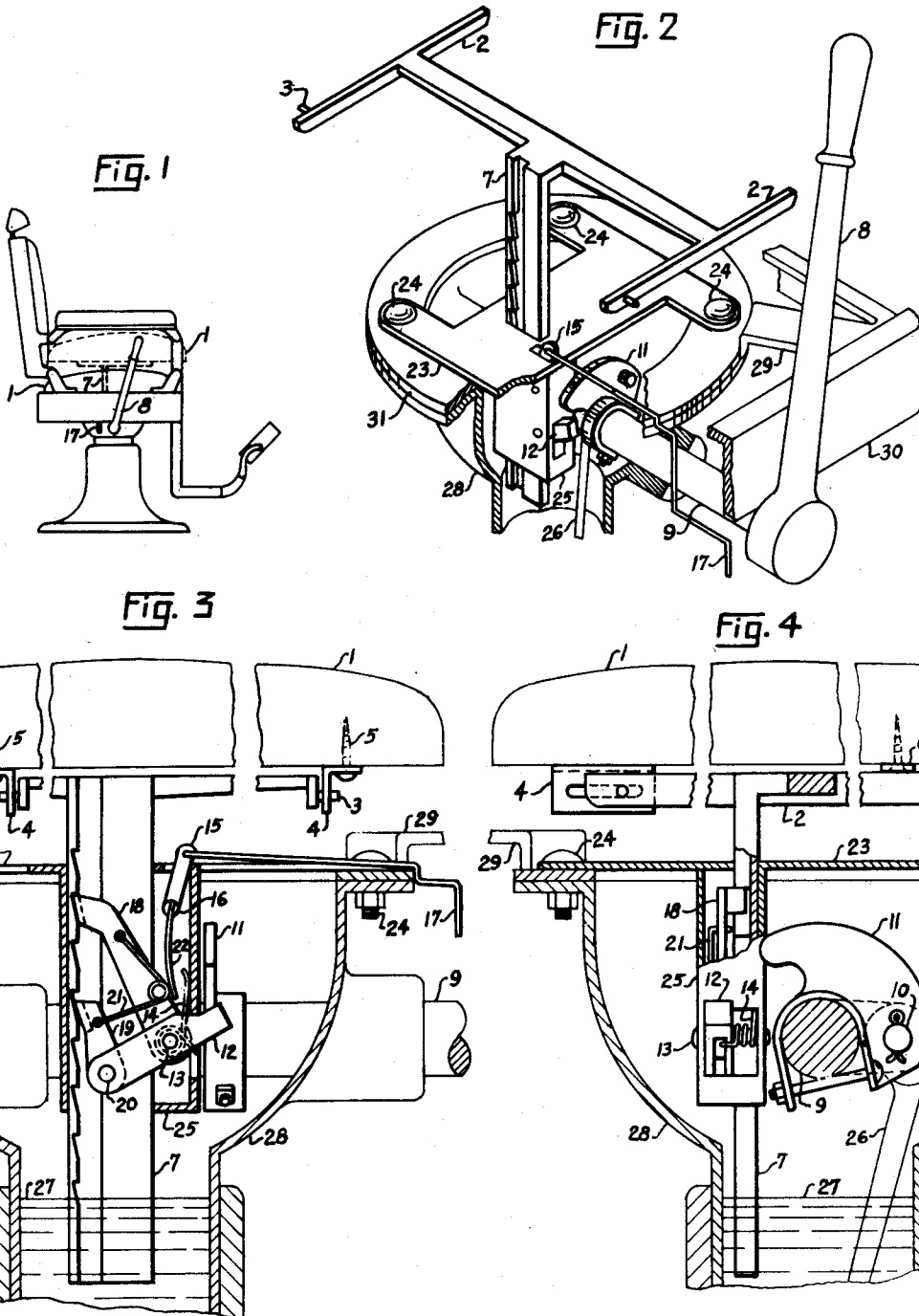
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BARBER CHAIR

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BARBER CHAIR

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1 Claim. (Cl. 155—25)

My invention relates to barber chairs and refers particularly to an adjustable seat for barber chairs.

The conventional or so-called standard barber chair has a back that is of such a height to meet the requirements of the adult occupant of average height, that is, when an adult of average height or taller is occupying the chair his head, neck and shoulders are above and past the back of the chair. It is necessary for the head, neck and shoulders of the occupant to be above the back of the chair in order to enable the barber to cut the occupant's hair, shave his neck, etc., without interference. The back of the chair must also be high enough to afford ample and comfortable support for the occupant's back. The so-called standard chair used for adults is not adapted for the use of children and persons of extremely short stature for the reason that the back of the chair is too high to clear their heads, necks and shoulders. Heretofore barber chairs were not provided with an adjustable seat that could be raised to such a height so that when a child or person of extremely short stature occupied the chair the head, neck and shoulders of the occupant would be above the back of the chair. In order to use the same barber chair for adults and children it was necessary to use an extra seat for children, such improvised seat was, as a rule, very uncomfortable to the occupant of the chair, and the use of this extra seat was also a source of annoyance and loss of time to the barber. In my invention I provide in a barber chair an adjustable seat that makes the chair adaptable to its use for children as well as adults.

The objects of my invention are: First, to provide in a barber chair a practical and efficient adjustable seat; second, to provide in a barber chair a seat that may be raised or lowered independently of the back of the chair; third, to provide in a barber chair a seat that is adjustable so as to adapt the chair to the use of infant as well as adult occupants; fourth, to provide in a barber chair a novelly constructed and operated adjustable seat, that is simple, practical, durable, efficient and economical of construction.

With these and other objects in view, as will appear hereinafter, my invention consists of certain novel features of construction, combination and arrangement of parts and portions as will be hereinafter described in detail and particularly set forth in the appended claim, reference being had to the accompanying drawing and to the characters of reference thereon, which form a part of this specification, in which:

Figure 1 is a side view of a barber chair comprising my invention, the dotted lines showing the seat of the chair in a raised or elevated position.

Figure 2 is a pictorial representation of the seat supporting and adjusting mechanisms comprising my invention. Certain other parts of the barber chair are also shown in this figure for the purpose of better illustrating the said mechanisms.

Figure 3 is a sectional view of a portion of a barber chair embodying my invention, showing details of my invention.

Figure 4 is another sectional view of a portion of a barber chair embodying my invention, showing further details of my invention.

Like characters of reference refer to similar parts and portions throughout the several views of the drawing.

My invention comprises in a barber chair a seat 1, preferably of the upholstered type. The seat 1 is slidably secured to the seat carriage 2 by means of the carriage pins 3 and the slotted angle irons 4 which are secured to seat by means of the screws 5. The slotted angle irons 4 permits a forward movement of the seat 1 over the slide plates 6 for the purpose of clearing the back of the chair when the seat is raised. The seat carriage 2 is secured to the upright supporting element 7 which has a plurality of ratchet notches. The upright supporting element 7, together with the seat 1, is raised and lowered by means of a ratchet jack mechanism which will be presently described. The manually operable hoisting lever 8 is secured to a horizontally positioned rotatable shaft 9 to which is secured, by means of the pin 10, a cam 11. The lever 12 is pivotally secured by means of the pin 13 to the ratchet case 25 which is in turn secured to the barber chair by means of the base plate 23 and the anchoring bolts 24. The lever 12 has a return spring 14 operatively secured thereto. The lever 12 is used to actuate the holding pawl 18 and the hoisting and lowering pawl 19. The pawl 18 is pivotally secured to the case 25 by means of the pin 13. Pawl 19 is in like manner secured by the pin 20. Pawl 18 and pawl 19 are provided with control springs 21 and 22, respectively. To control the actions of the pawls, a control lever 15, pivotally secured by means of the pin 16, is operatively connected therewith. The control lever is in turn operatively connected to a manually operable control rod 17. The functioning of the various parts of the ratchet jack mechanism is as follows: Assume control rod 17 is tripped

and therefore hoisting spring 22 inactive, i. e., in lowering position. Spring 21 has a free or neutral position between the lowest and highest positions of the pawl 19. Therefore, when pawl 19 is at its lowest position, spring 21 is in tension and pulls pawl 19 away from the second notch below pawl 18. In moving up pawl 19 misses this notch, but before it gets to the first notch below pawl 18, spring 21 is in compression, causing pawl 19 to engage this notch. When pawl 19 takes the load, pawl 18 flies back due to spring 21 being in compression. Before pawl 19 reaches its lowest position with the load, spring 21 gets in tension and pulls pawl 18 into the notch just above it and pawl 18 again takes the load. These movements are repeated for every notch the seat 1 is lowered. In elevating the seat 1, the spring 22 becomes active. Being stronger than spring 21, spring 22 overcomes it and pushes pawl 19 into the first notch, the force of spring 22 being transmitted through the stiff arm of spring 21. When spring 21 becomes in compression it is no longer in contact with spring 22, i. e., when pawl 19 reaches its highest position, and spring 22 is now acting on pawl 18, overcoming the compression of spring 21 and holding pawl 18 against the notches where it takes the load as soon as pawl 19 starts downward. These movements are repeated for every notch the seat 1 is elevated. Other parts of the barber chair not comprising my invention, but closely associated therewith, are: Hydraulic pump connecting rod 26, hydraulic pump oil 27, oil reservoir 28 which also serves as center column of chair, seat radial supports 29, chair frame 30, and center ring 31. To elevate or raise the seat 1, pull the manually operated control rod 17 until it engages over outer edge of center ring 31 as shown in Figure 3; then pull manually operated lever 8 towards the back of the chair as far as it will go, then forward about fifteen degrees and back again. Thus, for each oscillation of approximately fifteen degrees of the lever 8, the seat will rise the distance of one notch of the upright supporting element 7. To lower the seat 1, turn control rod 17 until it disengages the outer edge of center ring 31 and releases tension and hoisting spring

22. Then oscillate lever 8 as described above. For each oscillation of the lever 8 the seat 1 will lower the distance of one notch of the upright supporting element 7. The act of oscillating the lever 8 as described above causes the cam 11, through the agency of the shaft 9, to actuate the jack lever 12 in an up and down movement; such movement of the lever 12, through the several connected jack members, in turn, causes an up or down movement (depending on the position of the control rod 17) of the upright member 7. It will be noticed that the lever 8 is also used to operate the hydraulic jack for raising and lowering the upper portion of the chair as well as for raising and lowering the seat of the chair. To operate the hydraulic jack independently of the seat jack, the lever 8 is oscillated at such an angle which prevents the cam 11 from engaging the lever 12. Thus, it is evident that the barber chair seat comprising my invention may be adjusted to any desired height to meet the requirements of persons of various heights ranging from tall adults to small children.

It is to be understood that the form of my invention herein shown and described is to be taken as a preferred embodiment of the same and that various changes in the shape, size, and arrangement of parts, may be resorted to, which do not depart from the spirit of my invention, or the scope of the subjoined claim.

Having thus described my invention, what I claim is:

In a barber's chair having the usual seat frame adjustably mounted upon a pedestal and a back member carried upon the seat frame, a seat member normally resting upon said seat frame with its rear portion closely adjacent said back member, mechanism mounting said seat member upon said seat frame whereby the seat member may be raised or lowered independently of said seat frame, and means mounting said seat member upon said mechanism for forward and rearward sliding movement thereupon, whereby the seat member is moved forwardly upon said mechanism to clear the back member prior to being raised from said normal position.

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